

Door Master 300

Mobile App-based WIFI remote control
for controlling gates, garage doors, barrier gates

User Manual v1.1



SECURECOM

Table of Content

1. General information	3
1.1 Benefits	3
1.2 Operation	3
2. Connection	4
3. Settings.....	4
3.1 Setting the device WIFI connection using PC software	5
3.2 Setting up the WIFI connection with smartphone (alternative mode)	5
3.3 Special features, signals and setting	7
3.3.1 Gate position monitoring	7
3.3.2 Alert when gate was left open.....	7
3.3.3 Automatic gate opening	7
4. Status indicators	8
5. Reset to factory default	8
6. Smartphone app installation and usage.....	9
6.1 Starting the application and initial settings.....	9
6.2 Details and usage of the application	10
7. Management via WEB, password setting, restricting user rights	11
7.1 Device protection with password	12
7.2 Setting and restricting smartphone users	12
8. Technical Specifications	13
9. Content of the package.....	13

1. General information

Door Master 300 is an advanced gate or garage door control device, operating with WIFI connection over Internet providing the following functions:

- Remote controlling of gate or garage door for up to 300 users, via PULOWARE app
- Signaling the OPEN or CLOSED status on the smartphone application
- Signaling the opening and closing by “push notification”
- Setting an alarm in case the gate is left open too long
- Scheduled automatic opening periods can be set (e.g. Mo-Fri/08-17)

The **Door Master 300** remote control communicates through the internet, therefore for its operation it is necessary to have continuous Internet connection on both device and the smartphone. The connection and communication is encrypted with the AES-128 encoding.

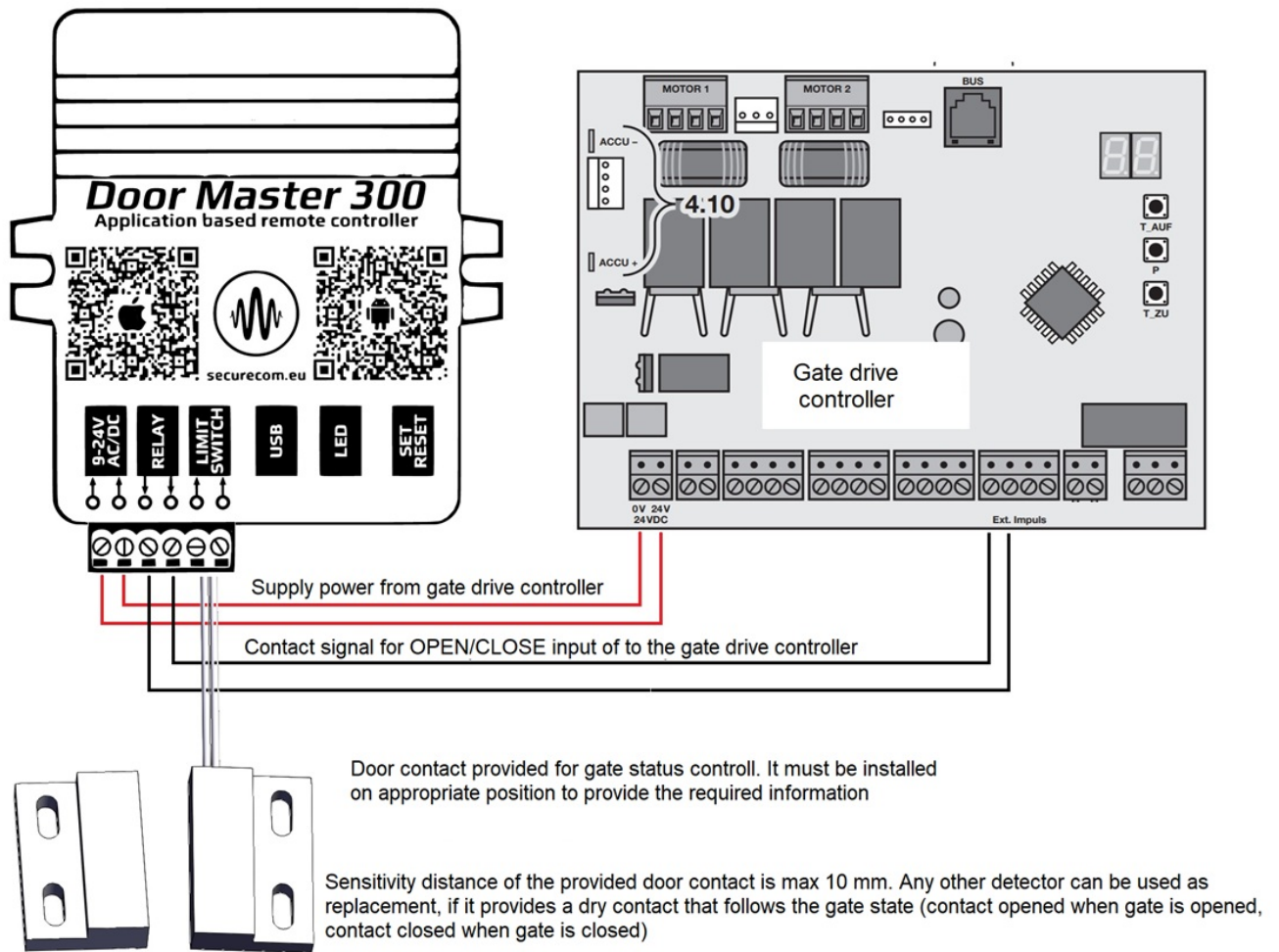
1.1 Benefits

- Simple smartphone app, replacing a remote control with unlimited distance
- Simple, fast setup (no router settings)
- Control and status monitoring in one
- Programmable alarming and automatic operation features
- Users can be managed remotely via the website (add, delete, restrict)
- Activity event log available from your phone or web page
- Settings of device can be changed remotely via web page

1.2 Operation

When the device is controlled from the **PULOWARE** mobile app, it closes the output contact for 1 second and sends the dry contact signal to the connected "open/close" input of any gate drive controller. The gate status information (OPENED or CLOSED) is gathered from the magnetic door contact, that must be installed in the appropriate position and connected to device input. When any user opens or closes the door, the device can send a notification to all users or only for specified users, showing the position of the garage door and who opened or closed it.

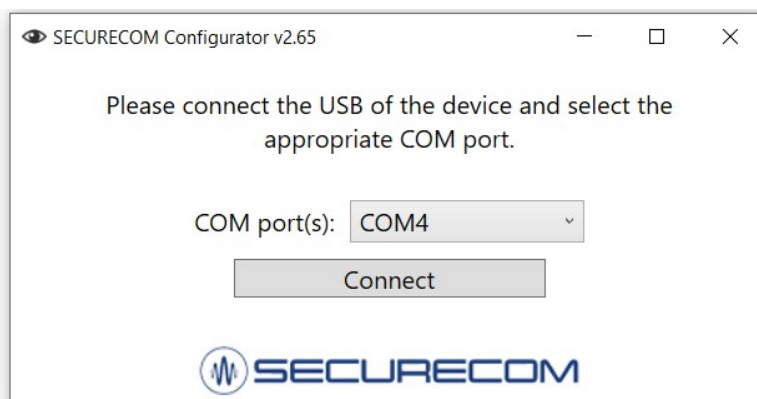
2. Connection



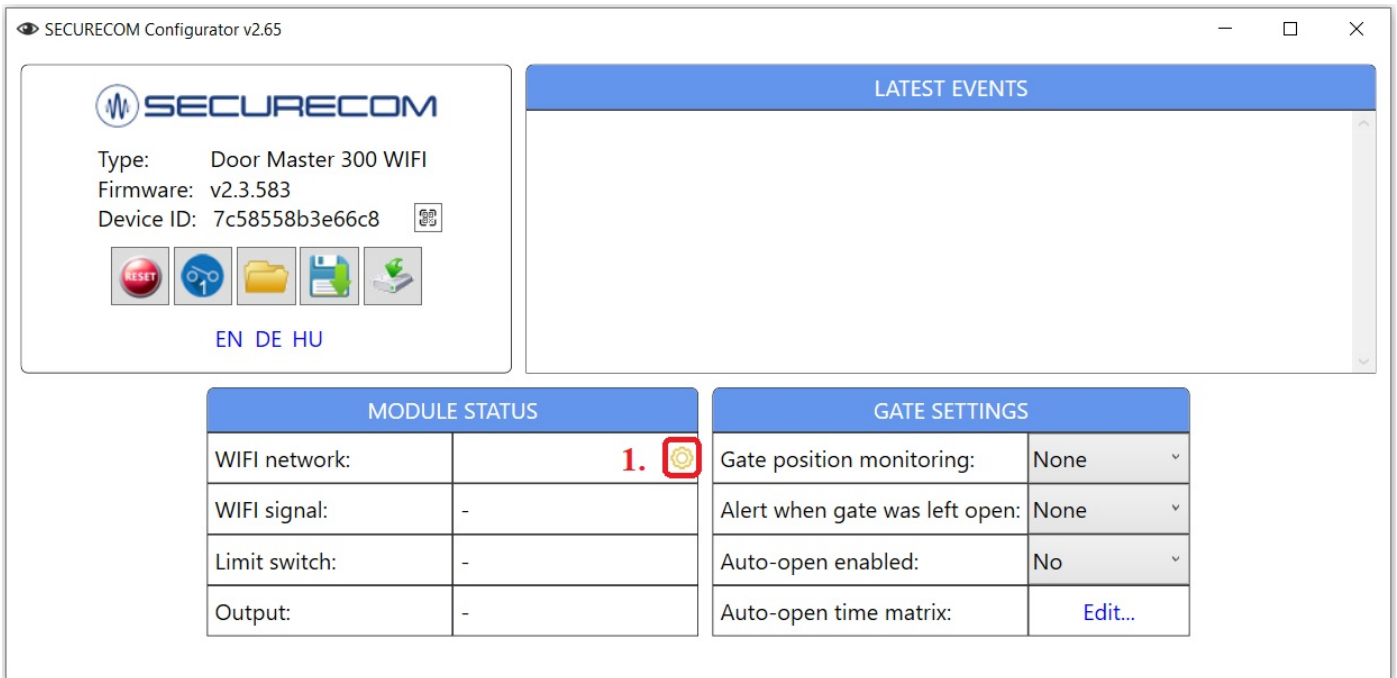
3. Settings

The device needs to be set up and connected to a local network that provides Internet connection. **Device can only connect to a 2.4GHz network!!** The 5Ghz cannot be used. All settings can be made with the SecurecomConfigurator software, which is downloadable from this link: <http://puloware.com/public/SecurecomConfiguratorSetup.exe>

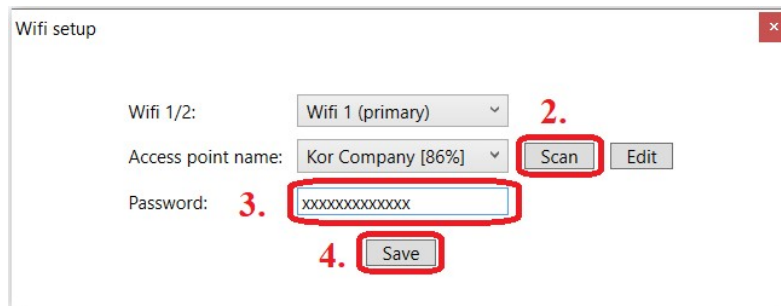
The software needs to be installed on Windows based PC. Run the software and connect the device with the PC using an USB cable. The software will automatically offer the appropriate COM port.



3.1 Setting the device WIFI connection using PC software



1. The WIFI network selection can be reached with "gear" icon, marked on the image



2. **Scan** button will load the list of WIFI networks which the device can reach
3. After selecting the network, put the appropriate password in the "password" field
4. Use the **SAVE** button to restart the device with the entered settings

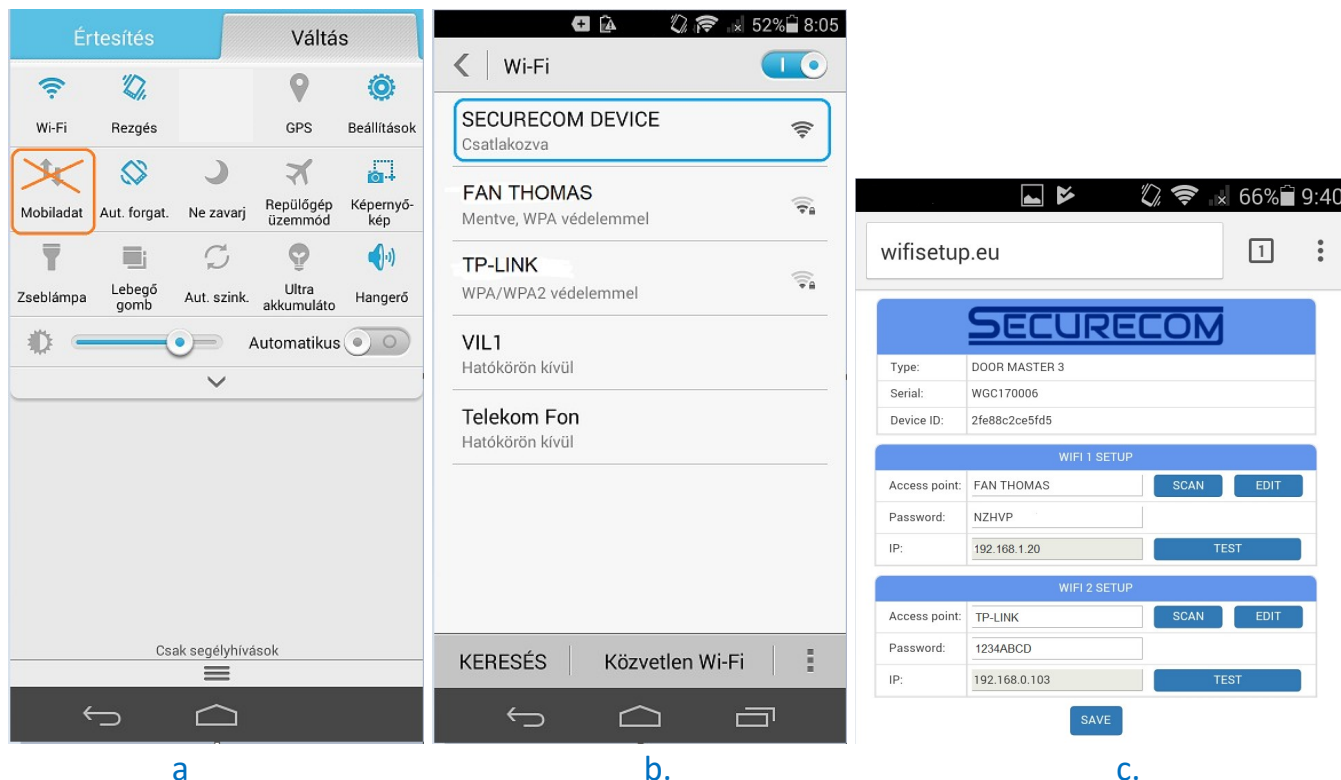
If the settings are correct (the password is right for the selected WIFI network) and the selected network has access to Internet, the device will instantly connect to appropriate server and display the "online" status with green LED blinking.

3.2 Setting up the WIFI connection with smartphone (alternative mode)

This method should be used when it is not possible to configure the device using the PC software. To setup the DM300 device with smartphone, its webpage must be accessed. The **SET/RESET** button is used to force the device into "HOTSPOT" mode. Alternate blinking of green and red light are displaying that the mode is active, and an own WIFI network is emitted with name **SECURECOM DEVICE**. You must connect to this network with a WIFI capable smartphone or computer, then the device webpage that shows settings can be accessed with a web browser. (It is important to keep the mobile data connection of the phone switched off!).

Access to the device configuration WEB page and set up the Internet connection

- Apply a short press to the **SET RESET** button, the status indicator LED will start blinking alternately green and red. (*DO NOT hold down the button for long time, this may delete all settings of device!*)
- With your smartphone (or PC), find the **SECURECOM DEVICE** name among the list of available WIFI networks, and connect to that network.
IMPORTANT: turn off mobile data on your phone before starting the browser, otherwise the operating system will connect the browser to internet through mobile network!
- After connecting to WIFI network, start the browser and open the web page **wifisetup.eu**. That page is displayed by the **Door Master 300** and presents all available settings:



Two separate networks can be set at the settings page, their SSID (name) and the appropriate password. These connections are redundant, used as backup for each other. When connection to server fails through one WIFI connection, the device will switch to the other. There is no "priority", and the connection through any of the two will be held as long as it provides connection to the server. When it fails, the device will switch to the other.

SCAN button will list the available networks, where the desired network can be selected

If the desired network is not listed (for example, in case of hidden network), you can press the **EDIT** button and enter manually the SSID (name) of the WIFI network

TEST button will initiate the connection to the selected network with entered password. If the password is correct and there is a DHCP server in the network, device will gain an IP address and it will be shown in the third field.

SAVE button should be used to save settings and restart the device with the entered settings

After the device has restarted and connected (displayed with green LED blinking), you can turn back on the mobile data connection in your phone.

3.3 Special features, signals and setting

Besides controlling of gate with smartphone app, device provides some special features that should be enabled and set with the configurator software.

GATE SETTINGS	
Gate position monitoring:	None ▾
Alert when gate was left open:	None ▾
Auto-open enabled:	No ▾
Auto-open time matrix:	Edit...

3.3.1 Gate position monitoring

The magnetic door contact provided with the device should be installed on the gate and connected to device. This way, the status of the gate becomes visible in the application. Also, when the status is changing (opening/closing) a push notification can be sent to selected smartphones. The status changing events are also visible in the event list. This way it is possible to review all previous events with the gate, even if the opening/closing was not initiated with **PULOWARE** application (for example, if the gate was opened manually).

3.3.2 Alert when gate was left open

Warning notification will be send in case the gate is left opened for longer time than set. During the automatic open mode this signal is disabled.

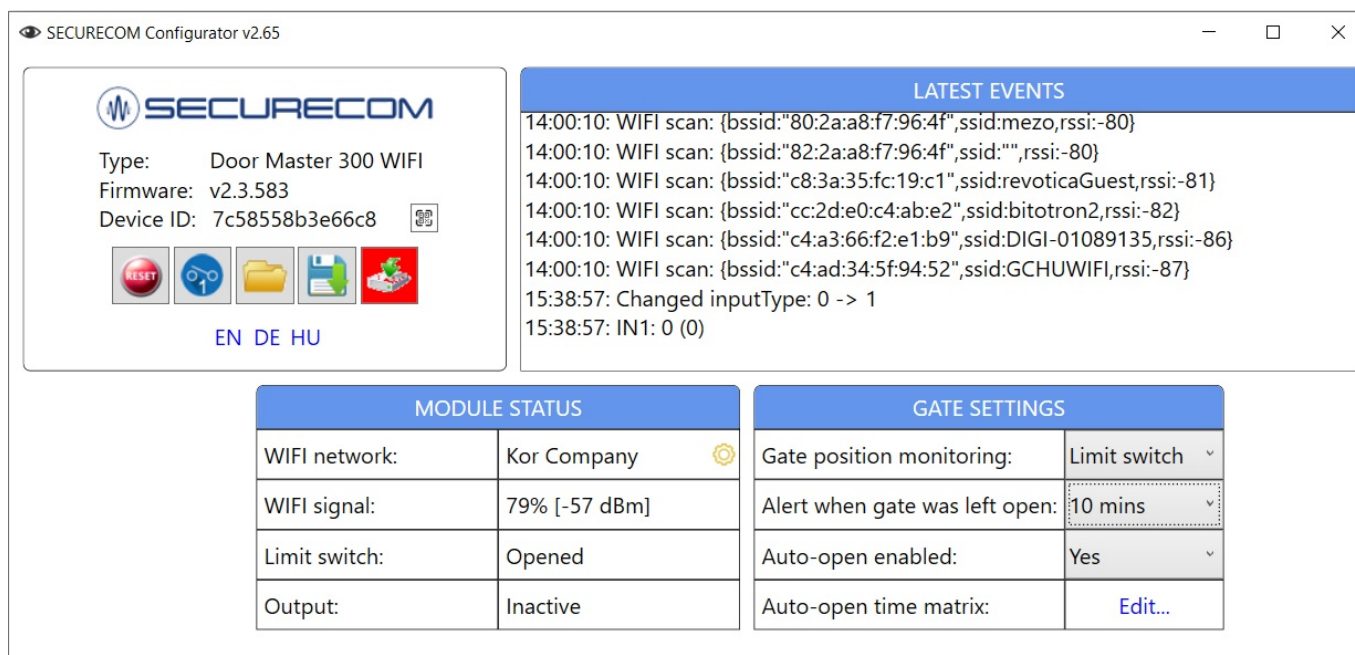
3.3.3 Automatic gate opening

This function allows to schedule when should the gate stay opened. After enabling the auto-open feature you can manage the preferable time in the time matrix. During the selected time, the control of output is continuously ON, thus preventing the gate automatic closing.

	Hours																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Monday								█	█	█	█	█	█	█	█	█	█	█	█					
Tuesday								█	█	█	█	█	█	█	█	█	█	█	█					
Wednesday								█	█	█	█	█	█	█	█	█	█	█	█					
Thursday								█	█	█	█	█	█	█	█	█	█	█	█					
Friday								█	█	█	█	█	█	█	█	█	█	█	█					
Saturday																								
Sunday																								

The green squares show the preferable time when should the gate be open. The selection is changed by clicking on the preferred block.

If any parameter value was changed, the "download" icon becomes red, signaling that it is necessary to download the new settings to the device. Clicking on the icon will send all settings as visible on screen to the device.



4. Status indicators

LED on the bottom side of the device shows the status of the connection to the WIFI network.

Continuous red	No settings (factory default)
Blinking red	Connection in progress Wrong WIFI settings (cannot connect) No Internet connection for selected WIFI
Blinking green	NORMAL operation, WIFI and internet connection stable
Alternate green/red	HOTSPOT mode, setup in progress


If the device is **blinking red** for long time, the device settings should be checked. If the LED light is changing from green to red from time to time, the connection is failing and either the WIFI signal level is poor, or the Internet provider (router connection to Internet) is faulty.

5. Reset to factory default

If it is required to reset all settings in Door Master 300 and delete it from all assigned smartphones and accounts in PULOWARE server, this operation can be performed only while the device is in NORMAL status, connected to the server (blinking green LED).

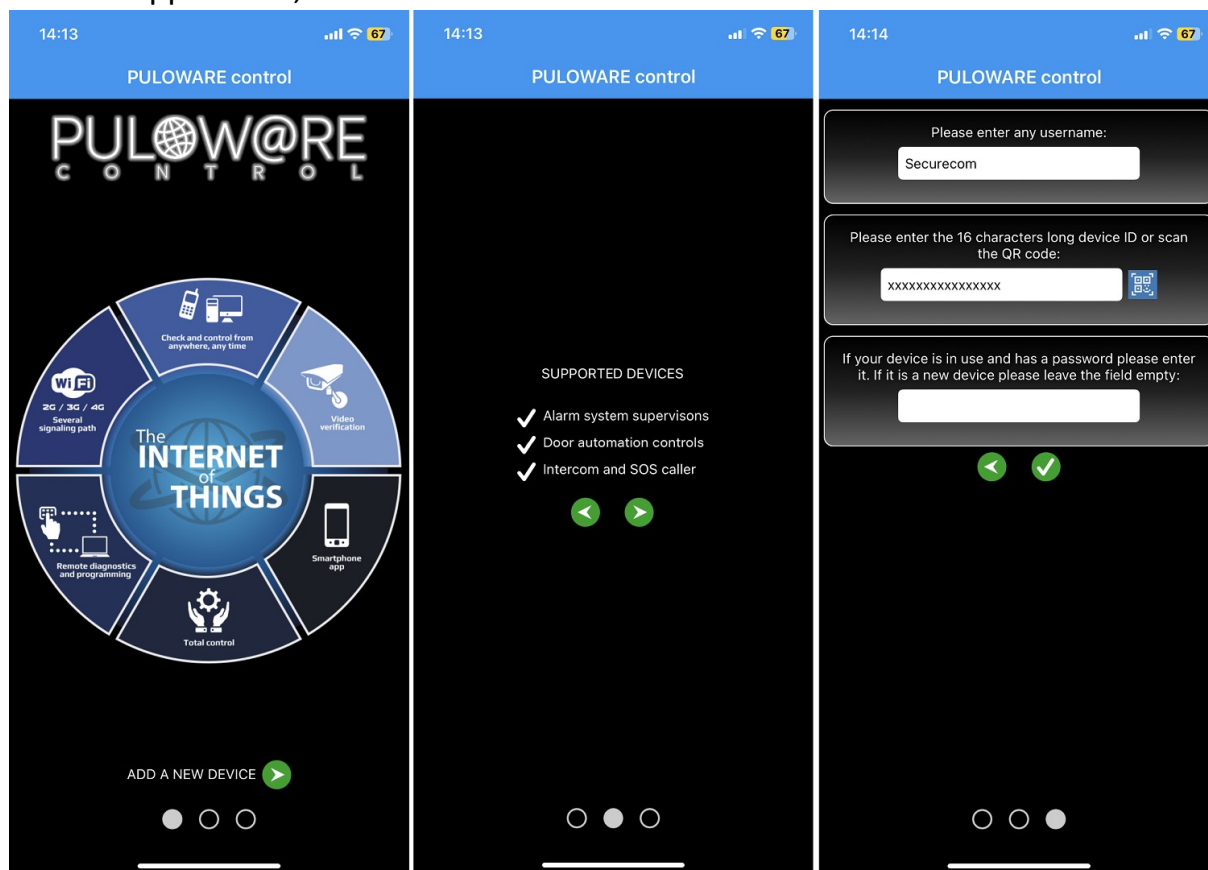
To reset, hold down the **SET/RESET** button pressed for approximately 30 seconds. When the button is pressed and held, the red/green status LEDs will start rapidly blinking and after a while it will turn off. When the defaulting procedure is finished, red LED will turn continuously ON. After that release the SET/RESET button. If the operation was canceled (the button released before the procedure finished), the device must be put to NORMAL status (green led blinking) before repeating the defaulting procedure.

6. Smartphone app installation and usage

Users can download the **PULOWARE**  app to their devices from **Google Play** or **App Store**, matching the platform to their smartphone. After starting the application, the setup wizard asks for entering the operator (user) name, then the **Device identifier number** of the **Door Master 300** unit to be controlled, and finally the relevant password. The device identifier number is the 16 alphanumeric character code on the sticker on the bottom of the device, which is the unique identifier of the unit in the system. There is no password for a new device, this can be set in a separate account on the IoT server interface.

6.1 Starting the application and initial settings

1. Download the PULOWARE application from the store supported by your phone.
2. Start the application, and enter the relevant data

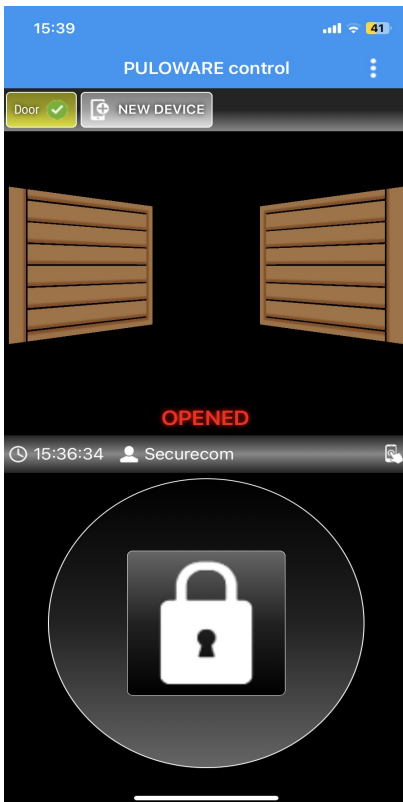


Green navigation pointers are showing the proceeding direction. Application requires a given **User name** and the **Device ID**. The **Device ID** can be found on the back of device and also on the enclosed Quick manual. This 16 characters long ID can be read also as QR code. For that, you must tap the blue icon with form of a QR code to open the reader and after that present the Device ID QR to the smartphone camera.

By default, there is no password for devices so leave the password field empty when a new device is assigned. A device password can be added, changed or deleted on the puloware.com web site, after the device is added to the users account. If a password was once assigned to a device, it cannot be added to any account or smartphone app without that password.

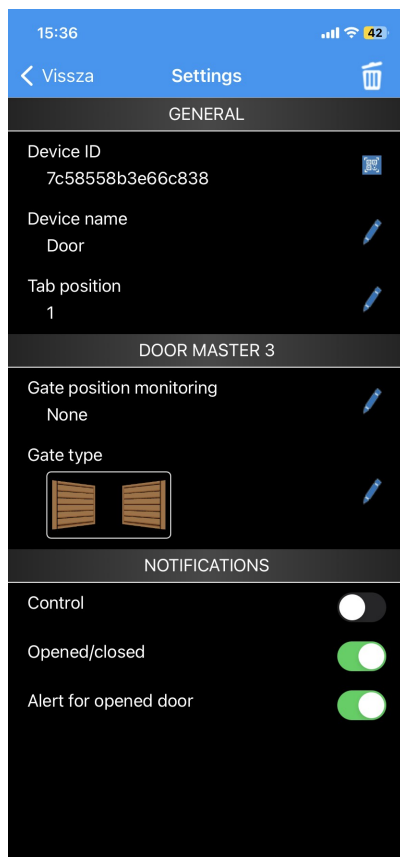
6.2 Details and usage of the application

Home screen



- Devices bar with all added PULOWARE compatible devices
All devices are reachable scrolling this area horizontally
When a desired device name is visible, click on it and the screen below will show that device status and options.
- Displaying the status of selected gate
- Last controlling time and users name
- Gate controlling button. It should be pressed for at least two seconds while the yellow circle closes around the button. After that the command will be sent, and after that a green checkmark will show the successful command receipt to the device.

Settings screen



- Bin icon for deleting the device from the application
- The gate opener's unique identifier + QR code
- Gate name, editable with the pencil icon on side
- Position of the device in the Device bar in Home screen
- Gate status sensor usage (the installation of provided door contact is recommended)
- Gate type selection (type of animation showed on home screen)
- Sending the Push notifications of specific type of events
To enable the sending of the named event type to your phone in the moment of event happening, push the slider to right. The slider is showing with the green color. If the notification sending for the named event type is enabled.

7. Management via WEB, password setting, restricting user rights

All additional features of the Door Master 300 are available via www.puloware.com WEB site. To login the portal a registration is required. When a new account is opened, only the demo devices are available, so a device must be added to the account using the **+ ADD DEVICE** button. Selecting a desired device from the list of added devices to the opened account (on the left side of page) will show the device status, settings and events on the right side of the screen:

The screenshot displays the Securecom web interface for a Door Master 300 device. The top navigation bar includes 'ACCOUNT: c@c.hu', a 'LOGOUT' button, 'OPERATOR: ?', and language options (EN, FR, SP, HU, IT, GR). The main content is divided into several sections:

- DEVICES:** A list of devices with their IDs and status. The selected device is 'Csokonai DM300' with ID '[78d42a7415b4]'.
- Device Summary:** Shows 'TYPE: DOOR MASTER 300 WIFI', 'FIRMWARE: v2.3.583', 'NAME: Csokonai DM300', and 'Output mode: Negative impulse (1 sec)'.
- LATEST EVENTS:** A log of recent events, including 'RESTART!', 'Device ID: 78d42a7415b42!', 'Product: DOOR MASTER 300 WIFI', 'Serial: TESTSERIAL-6598B8F9', and 'Local IP: 192.168.1.67'.
- MODULE STATUS:** Displays 'WIFI network: Vodafone', 'WIFI signal' (represented by a bar chart), 'Limit switch: ACTIVE', and 'Output: INACTIVE'.
- MODULE SETTINGS:** Includes 'Gate position monitoring', 'Limit switch (NC)', 'Alert when gate was left open: 10 mins', 'Auto-open enabled: Yes', and 'Auto-open time matrix: Edit...'.
- EVENT LIST:** A table of events with columns for Date/time, Event, CID, MS1, and MS2.
- MOBILE APP SETTINGS:** A section for configuring mobile app settings.
- MOBILE APP USERS:** A table listing users with columns for Phone, User, Last seen, User code, APP enable, APP full access, and APP push enable.



The design of the screen is identical to the SecurecomConfigurator.exe software screen, with all the status and settings fields that are available for that device as described in paragraph 3 [Settings].

7.1 Device protection with password

By default, there is no password for devices. Therefore, **when you are adding to the smartphone or to PULOWARE account a device that was not previously added anywhere or a device that was reset to factory default, leave the "password" field EMPTY!** To improve the security and prevent assigning of the device to unauthorized account or smartphone, set up a password to the device in dialog that is opened when you click on the little padlock next to the Device name. When a password is added to a device, it can not be added to an account or smartphone without it (it must be entered together with the device ID, in the "password" field). Adding or changing the password will not affect the accounts or applications where it was already added. To remove the device from smartphone, use the feature described in next selection. To delete a forgotten password, device must be reset to factory default as described in paragraph 5 [Reset to factory default].

7.2 Setting and restricting smartphone users

When a device is assigned to some smartphone in the installed PULOWARE app, basically all features are allowed. If needed, some features can be restricted or disabled. Also, it is possible to remove the device from some smartphone on the same platform.

MOBILE APP USERS							
Phone	User	Last seen	User code	APP enable	APP full access	APP push enable	
 M2101K7BNY	BaDphone	2023.03.06 15:38:50	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
 iPhone	Securecom	2023.03.06 15:38:19	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

A smartphone user is identified by the phone type and the user name that was entered during the app installation. Using the three checkboxes in the same row with the phone, it is possible to:

1. Disable the application so the user cannot control the device from that smartphone
2. Restrict the access to the event list in the app for that smartphone
3. Restrict the PUSH notification sending to the smartphone

Also, a device can be completely removed from the smartphone with the little red X that is displayed when a mouse is above the end of some row (as shown in picture above).

8. Technical Specifications

Supply voltage	9-24V AC or DC
Maximal consumption	100mA
Operating frequency	2.4 GHz, IEEE 802.11 b/g/n
Relay contact switching	max. 2A @ max. 60V
Operating temperature	-40...+85°C
Dimensions	77x73x21mm
Ingress protection	IP40 (protective box required for outdoor installation)

9. Content of the package

- Door Master 300 WIFI device
- Door contact sensor (reed relay + magnet + screws)
- USB cable
- Warranty card + quick setting manual